

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A method of controlling an inkjet printhead containing a substantially closed duct in which ink is situated, said duct having at least one exit opening for the ink, which comprises:

setting a required pressure change for obtaining an ink drop ejection in which the drop has a previously known size and/or speed,

- applying using an actuation circuit to apply an actuation pulse to an electro-mechanical transducer so that the pressure in the duct changes in such a manner that an ink drop is ejected from the exit opening,

- measuring the electric impedance of the electromechanical transducer real time during the application of the said pulse, while keeping the actuation circuit electronically connected to the electromechanical transducer and

- real time adapting the same actuation pulse on the basis of the measured impedance to obtain the said required pressure change, thus ejecting an ink drop having the previously known size and/or speed from the exit opening.

Claim 2 (Cancelled)

3. (Previously Presented) The method according to claim 1, wherein the actuation pulse applied to the electromechanical transducer is a voltage pulse, and a reacting current generated by the electromechanical transducer is measured.

4. (Original) The method according to claim 1, which is used to attain the pressure required to eject the drop at a specific speed and at a predetermined time.

5. (Original) The method according to claim 1, which is used to change the pressure after the ejection of the drop.

6. (Original) The method according to claim 5, wherein after the ejection of the drop, the pressure is brought substantially to a reference value.

7. (Currently Amended) An inkjet printhead containing a substantially closed duct for holding ink, which duct has at least one exit opening for the ink, which comprises:

means for setting a required pressure change for obtaining an ink drop ejection in which the drop has a previously known size and/or speed,

- an actuation circuit for applying an actuation pulse to an electromechanical transducer in such a manner that the pressure in the duct changes ~~so that an ink drop can be ejected from the exit opening,~~

- a measuring circuit for measuring the impedance of the electromechanical transducer real time during the application of the said pulse, and

- a control unit for real time adapting the same actuation pulse on the basis of the measured impedance to obtain the said required pressure change, thus ejecting an ink drop having the previously known size and/or speed from the exit opening.

8. (Original) An inkjet printer provided with the inkjet printhead of claim 7.